

# **Douro Series**

## **Features Performance and Quality**

- Superior light utilization & higher current density achieved by standard process and materials.
- All products passed in-line optical inspection.
- 100% inspected for shunt resistance and reverse current.
- Standard cells calibrated by Fraunhofer ISE.
- Regularly monitor product performance and soldering properties.
- Excellent mechanical performance proven by all customers.
- All products conform to the regulation of RoHS.

# G156S4 6"Monocrystalline Silicon Solar Cell

Pattern Code 4BB C5

### PHYSICAL CHARACTERISTICS

Dimensions 156.75mm x 156.75mm ± 0.5mm (D:210mm)

Front Alkaline textured, SiNx anti-reflecting coating,
Color: Light Blue, Blue, Dark Blue & Indigo
4 bus-bars (Segmented) with 1.0 mm ± 0.1mm width
Distance between bus-bars: 39 mm

Thickness (Si) 200µm +/- 20µm

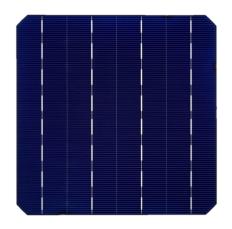
Back Aluminum back surface field
4 bus-bars (Segmented) with 1.8 mm ± 0.1mm width
Distance between bus-bars: 39 mm

#### **ELECTRICAL CHARACTERISTICS**

Code		20.00	19.80	19.60	19.40	19.20
Power	[W]	4.89	4.84	4.79	4.74	4.69
<b>Short Circuit Current</b>	Isc [A]	9.43	9.42	9.41	9.35	9.34
Open Circuit Voltage	Voc[mV]	645	643	642	639	637
Current at 0.5V	[A]	9.26	9.25	9.22	9.13	9.11
Maximum Power Current	Impp[A]	8.90	8.89	8.87	8.81	8.79
Maximum Power Voltage	Vmpp[mV]	550	547	544	541	538
Fill Factor	[%]	80.47	80.29	79.92	79.76	79.48
Temperature Coefficients Isc: 0.050 %/℃ Voc: - 0.331 %/℃ FF: - 0.124 %/℃ Power: - 0.415 %/℃						

The above data are average figures presently measured. Accuracy of eff. measurement is  $\pm 0.1\%$ . Reference data are calibrated by Fraunhofer ISE Freiburg.

#### **APPEARANCE**







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